

Sai Shashank Kudkuli

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PROFESSIONAL SUMMARY

I am an AI application developer specializing in end-to-end LLM-powered products and agentic systems. I design, build, and deploy AI applications, integrating large language models into real-world product workflows and business processes. My experience includes API development, event-driven architectures, scalable data pipelines, and distributed system deployment across cloud platforms.

TECHNICAL SKILLS

Languages: Python

Frameworks: Pytorch, PostgreSQL, DynamoDB, Snowflake, BigQuery, Git, Data Structures & Algorithms

AI/ML: LangChain, LangGraph, FastMCP, RAG, Vector Databases, n8n, Finetuning, Prompt Engineering

Cloud: AWS (Lambda, API Gateway, S3, IAM), Docker, CI/CD, Nginx

EDUCATION

University of Maryland

August 2024 – December 2025

Master of Science, Information Systems

CGPA 3.93/4

- **Winner:** AI in Business Case Competition: Designed AI integration strategy for small businesses.

PES University

August 2017 – December 2021

Bachelor of Technology, Electronics and Communication

Bengaluru, KA, India

EXPERIENCE

R.H. Smith School of Business | *Data and System Analyst* | aimaps.ai

November 2024 – Present

- Developed large-scale evaluation pipelines in Python, benchmarking Open and Closed Source AI models, across 10K+ job postings to validate semantic Job Classification. Generated Accuracy, Recall, Precision and other metrics for model comparison.
- Optimized Snowflake data pipelines for ingestion and standardization of job-market data used in semantic classification.
- Designed and deployed a data annotation pipeline for human annotators, reducing the annotation timeline from 10 hours to 3 hours per 100 Job Posts.
- Automated monthly report generation and data update pipelines through Python workflows and CRON Jobs.

Creative AI Solutions | *AI Strategy Intern* | *Early Stage Startup*

July 2025 – September 2025

- Built LLM automation flows integrating it with existing business workflows, reducing decision latency by 60%.
- Designed modular prompt pipelines and evaluation tooling, exposing them through API layers for client systems.

Oracle Cerner | *Systems Engineer* | Linux, Sybase, Active Directory

September 2022 – December 2023

- Resolved critical application/database issues across production hospital environments, reducing incident backlog by 75%.
- Performed root-cause analysis of recurring outages; implemented maintenance plans to improve reliability. Collaborated with client IT teams to communicate incident trends, mitigation steps, and recovery procedures.

Accenture | *SAP Consultant, Process Automation* | SAP WM/MM, ServiceNow

July 2021 – July 2022

- Delivered SAP WM/MM workflow optimizations achieving 95% SLA compliance in Agile sprint cycles.
- Created process automation SOPs during ServiceNow migration, reducing process violations by 80%.

PROJECTS

Asha IT Recruitment | AWS, Bedrock, LangGraph, ChromaDB, Firebase Auth | go.umd.edu/ashait

January 2025 – Present

- Developed a full-stack recruitment platform with a serverless backend (AWS Lambda + API Gateway), Firebase Authentication and a DynamoDB schema supporting multi-role access.
- Implemented Bedrock- and LangGraph-based candidate scoring and semantic retrieval, via Lambda microservices.
- Built secure file ingestion using presigned S3 workflows and event-driven resume parsing and data enrichment.

OpenCanvas | Neo4j, LangChain, FastMCP, Vector DBs, Agentic Systems | npm

June 2025

- Designed and built a graph-native AI workspace that allows multiple concurrent LLM contexts to reason over persistent user knowledge graphs.
- Implemented hybrid retrieval pipelines combining Neo4j graph traversal with vector semantic search to improve factual grounding and reduce hallucination.
- Built long-term memory and session-level context persistence enabling multi-turn reasoning across tasks, documents, and conversations.

LEADERSHIP & RECOGNITION

Smith Master's IS Association | *VP Finance*

January 2025 - Present

- Developed mentorship program connecting 100+ students and alumni. [Featured in university article for AI integration.](#)